



Operating Instructions and Parts Manual

20-inch Drill Press

Model: JDP-20MF



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Warnings

1. Read and understand the entire owner's manual before attempting assembly or operation.
2. Read and understand the warnings posted on the machine and in this manual. Failure to comply with all of these warnings may cause serious injury.
3. Replace the warning labels if they become obscured or removed.
4. This drill press is designed and intended for use by properly trained and experienced personnel only. If you are not familiar with the proper and safe operation of a drill press, do not use until proper training and knowledge have been obtained.
5. Do not use this drill press for other than its intended use. If used for other purposes, JET disclaims any real or implied warranty and holds itself harmless from any injury that may result from that use.
6. Always wear approved safety glasses/face shields while using this drill press. Everyday eyeglasses only have impact resistant lenses; they are not safety glasses.
7. Before operating this drill press, remove tie, rings, watches and other jewelry, and roll sleeves up past the elbows. Remove all loose clothing and confine long hair. Non-slip footwear or anti-skid floor strips are recommended. Do **not** wear gloves.
8. Wear ear protectors (plugs or muffs) during extended periods of operation.
9. Do not operate this machine while tired or under the influence of drugs, alcohol or any medication.
10. Make certain the switch is in the **OFF** position before connecting the machine to the power supply.
11. Make certain the machine is properly grounded.
12. Make all machine adjustments or maintenance with the machine unplugged from the power source.
13. Remove adjusting keys and wrenches. Form a habit of checking to see that keys and adjusting wrenches are removed from the machine before turning it on.
14. Keep safety guards in place at all times when the machine is in use. If removed for maintenance purposes, use extreme caution and replace the guards immediately.
15. Make sure the drill press is firmly secured to the floor or bench before use.
16. Check damaged parts. Before further use of the machine, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
17. Provide for adequate space surrounding work area and non-glare, overhead lighting.
18. Keep the floor around the machine clean and free of scrap material, oil and grease.
19. Keep visitors a safe distance from the work area. **Keep children away.**
20. Make your workshop child proof with padlocks, master switches or by removing starter keys.
21. Give your work undivided attention. Looking around, carrying on a conversation and "horse-play" are careless acts that can result in serious injury.
22. Maintain a balanced stance at all times so that you do not fall or lean against the spindle or other moving parts. Do not overreach or use excessive force to perform any machine operation.
23. Use the right tool at the correct speed and feed rate. Do not force a tool or attachment to do a job for which it was not designed. The right tool will do the job better and more safely.
24. Use recommended accessories; improper accessories may be hazardous.
25. Maintain tools with care. Keep drill bits sharp and clean for the best and safest performance. Follow instructions for lubricating and changing accessories.

26. Make sure the work piece is securely attached or clamped to the table. Never use your hand to hold the work piece.
27. Turn off the machine before cleaning. Use a brush or compressed air to remove chips or debris — do not use your hands.
28. Do not stand on the machine. Serious injury could occur if the machine tips over.
29. Never leave the machine running unattended. Turn the power off and do not leave the machine until it comes to a complete stop.
30. Remove loose items and unnecessary work pieces from the area before starting the machine.

Familiarize yourself with the following safety notices used in this manual:

⚠ CAUTION This means that if precautions are not heeded, it may result in minor injury and/or possible machine damage.

⚠ WARNING This means that if precautions are not heeded, it may result in serious injury or possibly even death.

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The specifications in this manual are given as general information and are not binding. JET reserves the right to effect, at any time and without prior notice, changes or alterations to parts, fittings, and accessory equipment deemed necessary for any reason whatsoever.

Specifications

Model NumberJDP-20MF
Stock Number 354170
Type..... Floor

Motor:

Horsepower 1-1/2
Phase single
Voltage 115/230V (prewired 115V)
Frequency 60 Hz
FLA (Full Load Amperage)..... 18/9 A

Capacities:

Drills to Center Circle20"
Distance Column to Spindle..... 10"
Drilling Capacity – Cast Iron 1"
Drilling Capacity – Mild Steel 3/4"
Chuck Size 3/4"

Speeds:

Number of Spindle Speeds 12
Range of Spindle Speeds (RPM) 150 – 4200

Spindle:

Spindle Taper..... MT-3
Spindle Travel 4-5/8"
Spindle Distance to Base 46-3/4"
Spindle Distance to Table (max.) 29-1/8"

Table and Column:

Table Size (Length x Width)..... 18-1/2" x 16"
Table Weight Capacity 80 lb
Table T-Slots, Number 6
Table T-Slots, Size 1/2"
Table T-Slots, Centers 3-1/2"
Table Tilt 45 deg.
Column Diameter 3-3/8"

Base:

Base Size 13-3/4" x 22-3/4"
Base Working Surface 13" x 8-1/2"
Base Slots, Number 2
Base Slots, Size 5/8"

Dimensions:

Overall Dimensions (H x W x D) 66" x 23" x 31-1/2"
Carton Size (L x W x H): 58" x 26" x 13"

Weights:

Net Weight (approx.)..... 282 lbs.
Gross Weight 293 lbs.

Shipping Contents

Unpack the carton and verify that all parts listed below are included.

Main Parts

- 1 ea Head Assembly
- 1 ea Table
- 1 set Column and Table Bracket Assembly
- 1 ea Base

Other Material

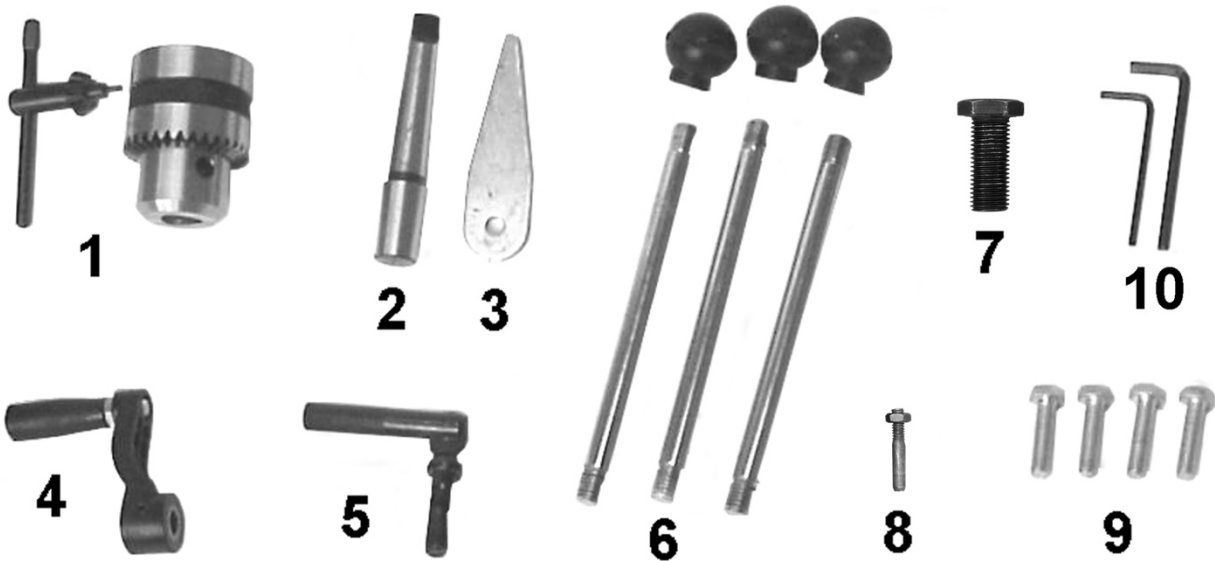
- 1 ea Owner's Manual
- 1 ea Product Registration Card

Additional Parts

- 1. 1 set Chuck and Chuck Key
- 2. 1 pc Arbor
- 3. 1 pc Drift Key
- 4. 1 pc Table Crank Handle
- 5. 1 pc Column Lock Handle
- 6. 3 pcs Downfeed Handles and Knobs
- 7. 1 pc 5/8"-11x2" Hex Cap Screw
- 8. 1 set Locator Pin and Hex Nut
- 9. 4 pcs M10 x 40 Hex Cap Screws
- 10. 2 pc Hex Wrenches (3mm, 5mm)
- 11. 1 pc Chuck Guard (not shown)

Required Tools (not included)

- 1. 17mm Box Wrench or a 6" – 8" Adjustable Wrench
- 2. 15/16" wrench



Additional Parts

Assembly

⚠ WARNING Read and understand all assembly instructions before attempting assembly! Failure to comply may cause serious injury!

⚠ WARNING Do not attempt to turn on power before this machine is completely assembled.

Before Assembly

1. Remove contents from shipping container.
2. Compare contents of shipping container with the list on page 6. Report any shortages or damage to your JET distributor.
3. Clean all rust protected surfaces with kerosene or a light solvent. Do not use lacquer thinner, paint thinner, or gasoline. These will damage plastic components and painted surfaces.

Column to Base

Referring to Figure 1:

1. Place the base (A) on a level floor.
2. Place the column assembly (B) on the base (A) and align the holes in the column support with the holes in the base.
3. Using a 19mm wrench, secure the column (B) with four M10 x 40 hex cap screws (C) to the base.

Table Bracket and Rack

Referring to Figures 2 and 3:

When shipped, the *rack ring* and *rack* are bundled together with the column in plastic wrap.

1. Remove the wrap and take the rack ring (D) and rack (E) off the column (B).
2. Insert worm gear shaft (G) through hole of bracket (F) and mesh with worm (H).
3. Position rack (E) in U-slot of bracket with arrow pointing upward, and slide this assembly together onto the column.
4. Slide rack ring (D) over column (B), placing it so it rests against rack (E) as shown in Figure 3. Tighten firmly with 3mm hex wrench (provided).

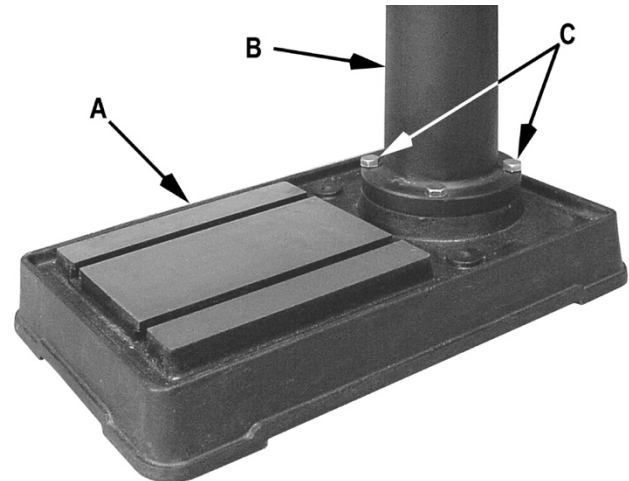


Figure 1

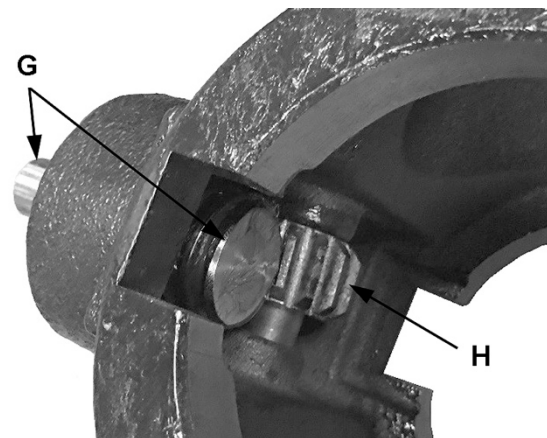


Figure 2

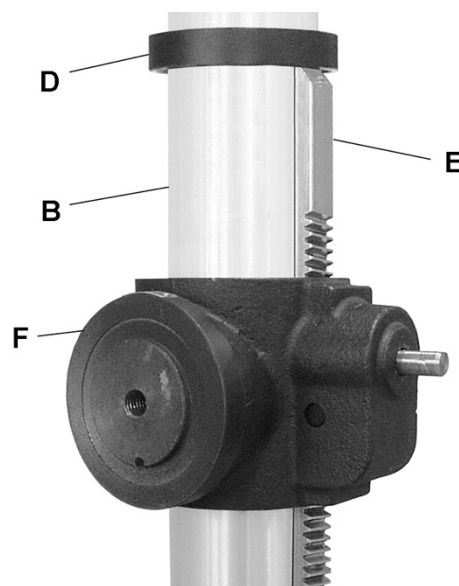


Figure 3

Crank Handle

Referring to Figure 4:

1. Loosen the setscrew (B) on the table crank handle (A).
2. Slide the handle (A) onto the table bracket shaft.
3. Turn the handle until the setscrew is opposite the flat section on the shaft, and tighten the setscrew to secure the handle.

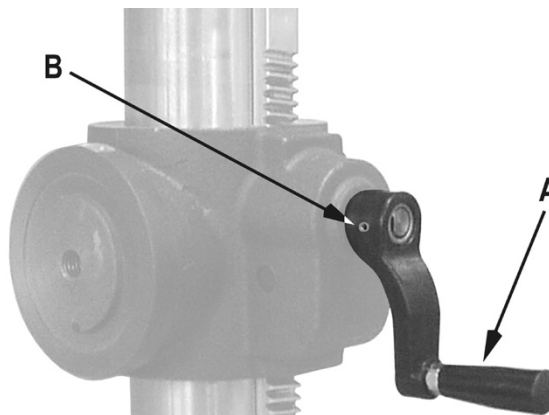


Figure 4

Column Lock Handle

Referring to Figure 5:

Thread the *column lock handle* (A) into the table bracket (B).

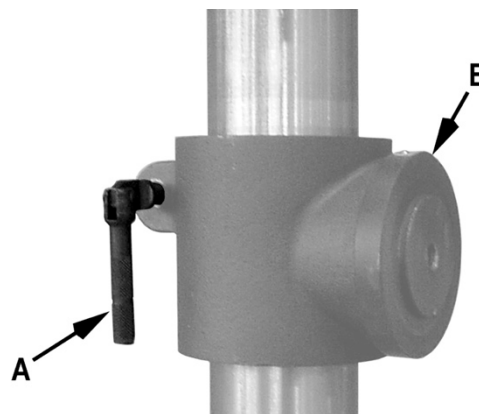


Figure 5

Table Installation

⚠ CAUTION

The table is heavy! This installation is a two person operation to avoid injury from accidental dropping.

Referring to Figure 6:

1. Have one person hold the table (A) against the bracket (B), aligning the hole in the mounting plate of the table with the threaded hole in bracket.
2. Have the second person insert the 5/8"-11x2 hex head screw (C) through the opening on the bottom side of the table (A) and start threading the screw into the bracket by hand.
3. Finish tightening the screw (C) with a 15/16" or wrench (wrench provided), but leave loose enough so the table can be tilted by hand.
4. Using the scale on the bracket as a guide, set the table angle to 0 degrees (level).
5. Take the locator pin (D) and adjust the hex nut towards the end of the thread as shown in the close up view (D).
6. Insert the non-threaded end of the locator pin (D) into the hole on the table found just below the mounting screw. Press all the way in.

Note: The table may have to be tilted slightly back and forth if the holes do not quite align.

7. Tighten the screw (C) with a 15/16" wrench.

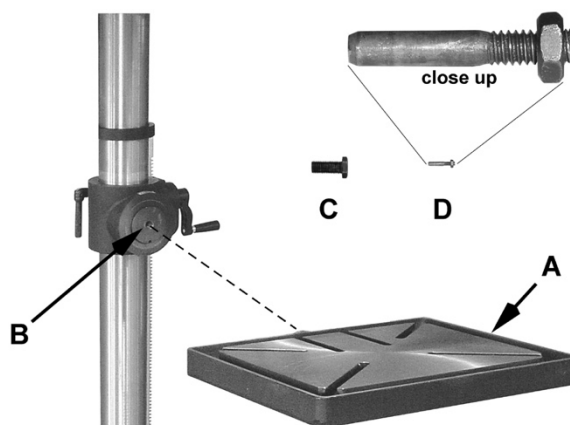


Figure 6

Head Assembly

Referring to Figure 7:

1. With the aid of a second person, carefully lift the *head* onto the column top and slide it down into position.

⚠ CAUTION The head assembly is heavy! Use care when lifting onto the column!

2. Rotate head assembly until sides of the pulley cover are parallel with the sides of the base.
3. Tighten two setscrews (A) with a 5mm hex wrench (provided) until they are snug.
4. Install three *downfeed handles* (B) into the downfeed hub (C).



Figure 7

Chuck and Arbor Installation

Referring to Figure 8:

1. Thoroughly clean the internal and external taper of the arbor (A), and chuck (B) and spindle (C).

Important: These three pieces must be free of any rust protection, or lubricant. If they are not clean, the arbor and chuck may fail to seat in the spindle.

2. Place arbor (A) into the chuck (B).
3. Twist the chuck to fully retract the chuck jaws.
4. Place arbor and chuck assembly into the spindle (C).
5. Turn the arbor and chuck assembly until the tang on the arbor engages the slot at the end of the spindle.
6. Use a few taps from a rubber mallet, or a hammer and a block of wood, against the bottom of the chuck to seat the chuck securely onto the arbor. **Do not use a steel-faced hammer directly against the chuck.**

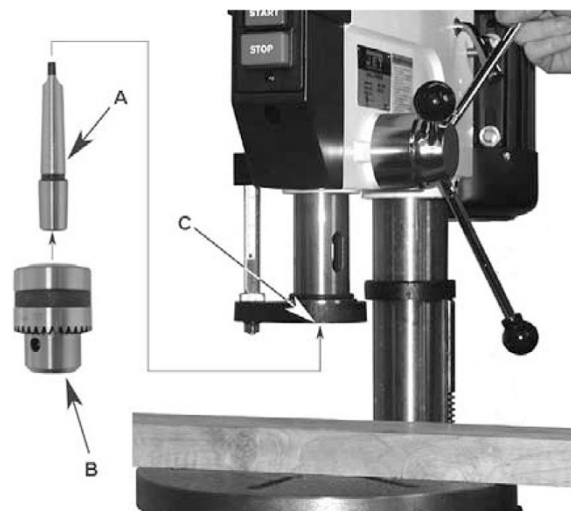


Figure 8

Chuck and Arbor Removal

1. Unplug machine from the power source.
2. Raise the table until it is about seven inches below the chuck.
3. Place a piece of scrap wood on the table, and lower quill (A, Fig. 9) using the downfeed handle.
4. Rotate spindle to align the keyhole in the spindle with the keyhole in the quill.
5. Insert the drift key (B, Fig. 9) into the aligned slots and tap lightly. The chuck and arbor assembly should fall from the spindle.

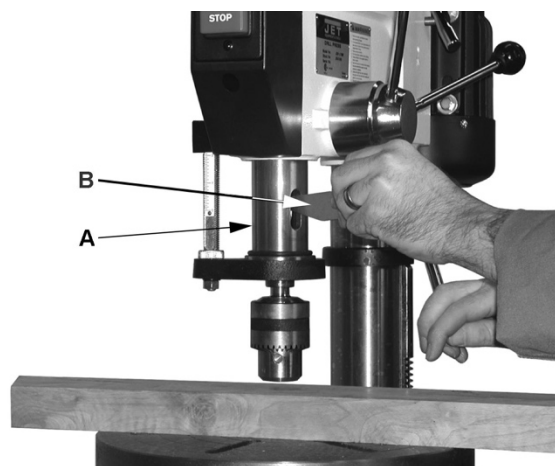


Figure 9

Chuck Guard

1. Unplug machine from power source.
2. Attach chuck guard to spindle collar and tighten screw (Figure 9a). The guard can be flipped up for chuck access.



Figure 9a

Adjustment

Depth Stop Adjustment

To drill multiple holes at the same preset depth, use the depth stop:

1. Use a pencil to mark the depth the bit will drill into the workpiece.
2. With the drill bit in the chuck, lower downfeed handle to advance bit to your mark (A, Fig. 10).
3. With your other hand, advance the lock nuts (B, Fig. 10) on the depth stop rod until they are snug to the seat (C, Fig. 10).
4. The drill bit will now advance to this point.
5. To release, advance the nuts counterclockwise to the top of the depth stop.

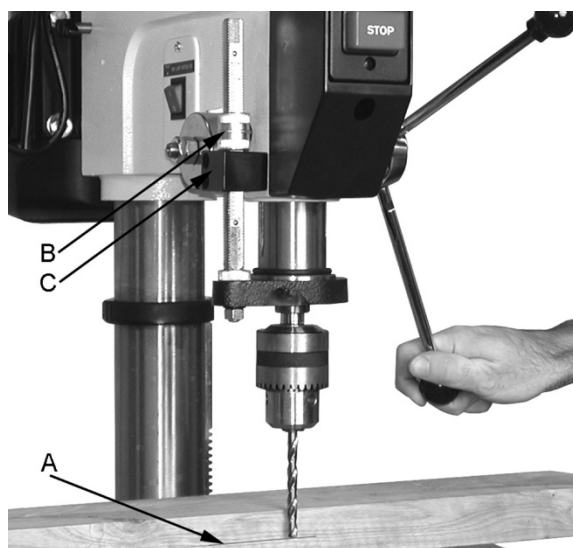


Figure 10

Changing Spindle Speeds

A spindle speed and pulley/belt arrangement chart is found on the inside of the pulley cover (D, Fig. 11), also shown in Figure 12. Refer to this chart whenever changing speeds.

To change spindle speeds:

1. Unplug the machine from the power source.
2. Loosen two bar knobs (E, Fig. 11) found on each side of the head assembly.
3. Rotate the tension adjuster clockwise (F, Fig. 11) to bring the motor base as close to the head as possible.
4. For desired speed, change the location of belts per pulley/belt arrangement chart.
5. Rotate the tension adjuster counterclockwise (F, Fig. 11) to tension the belts.
6. Tighten two bar knobs (E, Fig. 11). Belts are properly tensioned when finger and thumb pressure midway between the two pulleys causes approximately $\frac{1}{2}$ " deflection.



Figure 11

Return Spring Adjustment

The return spring is adjusted at the factory and should not need further adjustment. If adjustment is deemed necessary, follow the steps below while referring to Figure 12:

1. Unplug the machine from the power source.
2. Loosen two hex nuts (A). *Do not remove.*

⚠ WARNING Do not remove the coil spring cover (Step 3). The torsion spring will uncoil and can cause serious injury.

3. Firmly hold the coil spring cover (B).
4. Pull out the cover and rotate until the pin (C) on the return spring plate engages the next notch in the coil spring cover. Turn the cover clockwise to decrease tension and counter-clockwise to increase tension.
5. Tighten two hex nuts (A). Do not over-tighten. Nuts should not contact the housing when tight. The hex nuts should be tightened against each other.

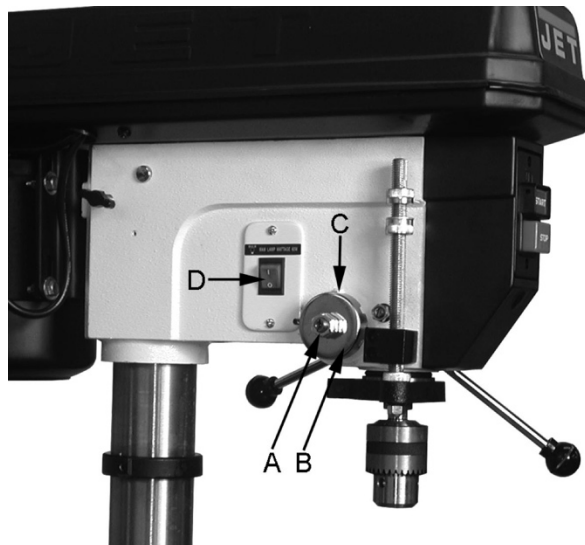


Figure 12

Work Light

Install a light bulb, no larger than 60 watts into the socket accessed from beneath the head. The rocker switch controls the light switch (D, Fig. 12). **NOTE:** If using 230 volt power, use a light bulb rated accordingly.

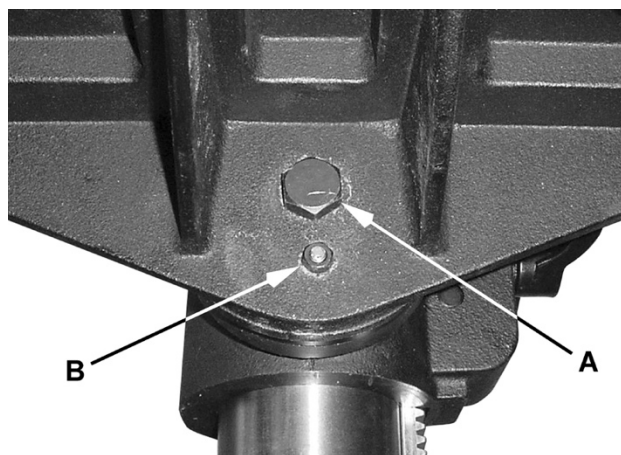


Figure 13

Table Tilt Adjustment

To tilt the table (refer to Figures 13 and 14):

⚠ CAUTION In the following steps, **DO NOT OVER LOOSEN**. This could result in the table assembly to separate from the column, fall and cause injury.

1. Using a 15/16" wrench, loosen the hex cap screw (A, Figure 13) located under the table, about one turn.
2. Pull the locator pin out with a pliers placed over the hex nut. The pin may be seated tightly, requiring a twisting motion as it is extracted.

Note: When the table is in any position other than level (0 degrees), the locator pin is not used.

3. Tilt the table to the desired angle by aligning the scale (in degrees) on the table (C) to the marker at the base of the bracket (D).
4. Tighten the hex cap screw (A).

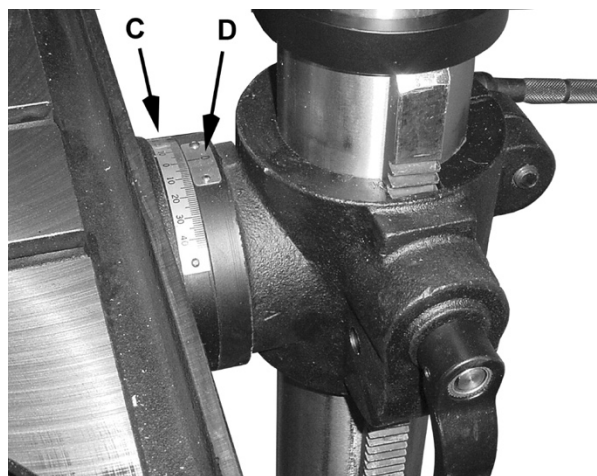


Figure 14

Operation

Installing Drills

Insert the drill into the chuck jaws with about 1" insertion. When using a small drill do not insert it so far that the jaws touch the flutes of the drill. Make sure that the drill is centered in the chuck before tightening the chuck with the key.

Positioning the Workpiece

Always place a piece of wood (or plywood) on the table. This will prevent "splintering" or making heavy burrs on the underside of the workpiece as the drill breaks through. The wood should contact the left side of the column.

Using the Vise

For the small workpiece that cannot be clamped to the table, use a drill press vise. The vise must be clamped or bolted to the table. Always use a back-up piece of scrap wood to cover the table. This protects both the table and the drill bit.

Basic Operation

Place material to be drilled in such a way as to come into contact with the left side of the column. This prevents the material from spinning.

⚠ WARNING If the work piece is not large enough to come into contact with the column, use a clamp or drill press vise that is securely fastened to the table! Failure to comply may cause serious injury!

Feed the bit into the material with only enough force to allow the drill bit to work. Feeding too slowly may cause burning of the workpiece. Feeding too quickly may cause the motor to stop and/or the drill bit to break.

Generally speaking, the smaller the drill bit, the greater the RPM required. Wood requires higher speeds than metal. Metal is usually drilled at slower speeds.

In dusty environments, frequently blow out any dust that accumulates inside the motor.

Maintenance

⚠ WARNING Before any intervention on the machine, disconnect it from the electrical supply by pulling out the plug or switching off the main switch! Failure to comply may cause serious injury.

A coat of automobile-type wax applied to the table and column will help to keep the surfaces clean.

If the power cord is worn, cut, or damaged in any way, have it replaced immediately.

Lubrication

All of the ball bearings are packed with grease at the factory. They require no further lubrication.

Periodically lubricate the gear, rack, table elevation mechanism, the splines (grooves) in the spindle, and the teeth of the quill with a #2 tube grease.

Electrical

115 Volt Operation

Referring to Figure 15:

As received from the factory, your drill press is ready to run at 115-volt operation. This drill press, when wired for 115 volt, is intended for use on a circuit that has an outlet and a plug that looks like the one illustrated in (A). A temporary adapter, which looks like the adapter shown in (B), may be used to connect this plug to a two-pole receptacle if a properly grounded outlet is not available. The temporary adapter should only be used until a properly grounded outlet can be installed by a qualified electrician. This adapter is not applicable in Canada. The green colored rigid ear, lug, or tab, extending from the adapter, must be connected to a permanent ground such as a properly grounded outlet box.

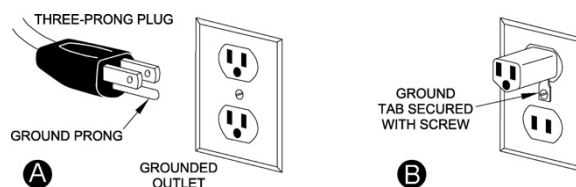


Figure 15

230 Volt Operation

Referring to Figure 16:

If 230V, single-phase operation is desired, the following instructions must be followed:

1. Disconnect the machine from the power source.
2. The JET drill press motor has four numbered leads that are factory connected for 115V operation, as shown in (A). For 230V operation reconnect the leads as shown in (B).
3. The 115V attachment plug (C), supplied with the drill press, must be replaced with a UL/CSA listed plug suitable for 230V operation (D). Contact your local Authorized JET Service Center or qualified electrician for proper procedures to install the plug. The drill press must comply with all local and national codes after the 230-volt plug is installed.
4. The drill press with a 230-volt plug should only be connected to an outlet having the same configuration as shown in (D). No adapter is available nor should be used with the 230-volt plug.
5. The light bulb must be replaced with a bulb rated for 230 volt operation.

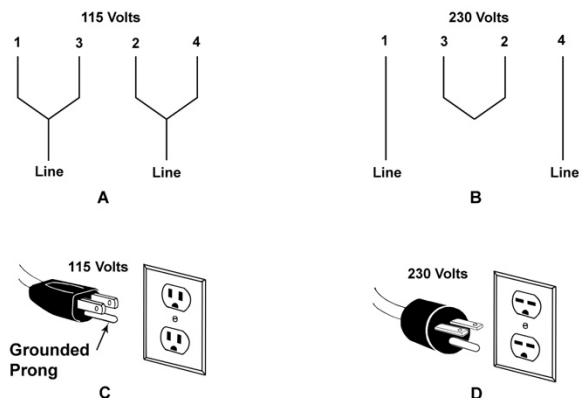


Figure 16

Grounding Instructions

⚠ CAUTION This tool must be grounded while in use to protect the operator from electric shock.

In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly

installed and grounded in accordance with all local codes and ordinances.

Do not modify the plug provided. If it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor, with insulation having an outer surface that is green with or without yellow stripes, is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded. Use only three wire extension cords that have three-prong grounding plugs and three-pole receptacles that accept the tool's plug.

Repair or replace a damaged or worn cord immediately.

Extension Cords

Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your machine will draw. An undersized cord will cause a drop in the line voltage resulting in power loss and overheating. The table following shows the correct size to use depending on the cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. Remember, the smaller the gauge number, the heavier the cord.

Length of Cord	AWG
0-25	16
25-50	14
51-100	12

The drill press with a 230-volt plug should only be connected to an outlet having the same configuration (D, Fig. 16). No adapter is available or should be used with the 230-volt plug.

Important: In all cases (115 or 230 volts), make certain the receptacle in question is properly grounded. If you are not sure, have a registered electrician check the receptacle.

Troubleshooting JDP-20MF Drill Press

Trouble	Probable Cause	Remedy
Drill press will not start.	Drill press unplugged from wall, or motor.	Check all plug connections.
	Fuse blown, or circuit breaker tripped.	Replace fuse, or reset circuit breaker.
	Cord damaged.	Replace cord.
	Starting capacitor bad.	Replace starting capacitor.
Drill press does not come up to speed.	Extension cord too light or too long.	Replace with adequate size and length cord.
	Low current.	Contact a qualified electrician.
Drill Press vibrates excessively.	Stand on uneven surface.	Adjust stand so that it rests evenly on the floor.
	Bad belt(s).	Replace belts.
Noisy Operation.	Incorrect belt tension.	Adjust belt tension. See the <i>Changing Spindle Speeds</i> section.
	Dry spindle.	Lubricate spindle. See the <i>Lubrication</i> section.
	Loose spindle pulley.	Check tightness of retaining nut on pulley, and tighten if necessary.
	Loose motor pulley.	Tighten setscrews in pulleys.
Workpiece Burns.	Incorrect Speed.	Change to appropriate speed; see the <i>Changing Spindle Speeds</i> section.
	Chips not clearing from hole or bit.	Retract drill bit frequently to remove chips.
	Dull drill bit.	Resharpen, or replace drill bit.
	Feeding too slowly.	Increase feed rate.
Drill bit wanders.	Bit sharpened incorrectly.	Resharpen bit correctly.
	Bent drill bit.	Replace drill bit.
	Bit, or chuck not installed properly.	Reinstall the chuck, or bit properly.
Wood splinters on the underside.	No backing board used.	Place a scrap board underneath the workpiece to prevent splintering.
Drill bit binds in workpiece.	Workpiece pinching the bit.	Support or clamp workpiece.
	Excessive feed rate.	Decrease feed rate.
	Chuck jaws not tight.	Tighten chuck jaws.
	Improper belt tension.	Adjust belt tension. See the <i>Changing Spindle Speeds</i> section.
Excessive drill bit runout, or wobble.	Bent drill bit.	Replace drill bit.
	Worn spindle bearings.	Replace spindle bearings.
	Bit, or chuck not properly installed.	Reinstall the bit, or chuck properly.
Quill returns too slow, or too fast.	Spring has improper tension.	Adjust spring tension. See the <i>Return Spring Adjustment</i> section.
Chuck or arbor does not stay in place.	Dirt, grease, etc on arbor, chuck, or spindle.	Clean all mating surfaces thoroughly with a cleaner degreaser.

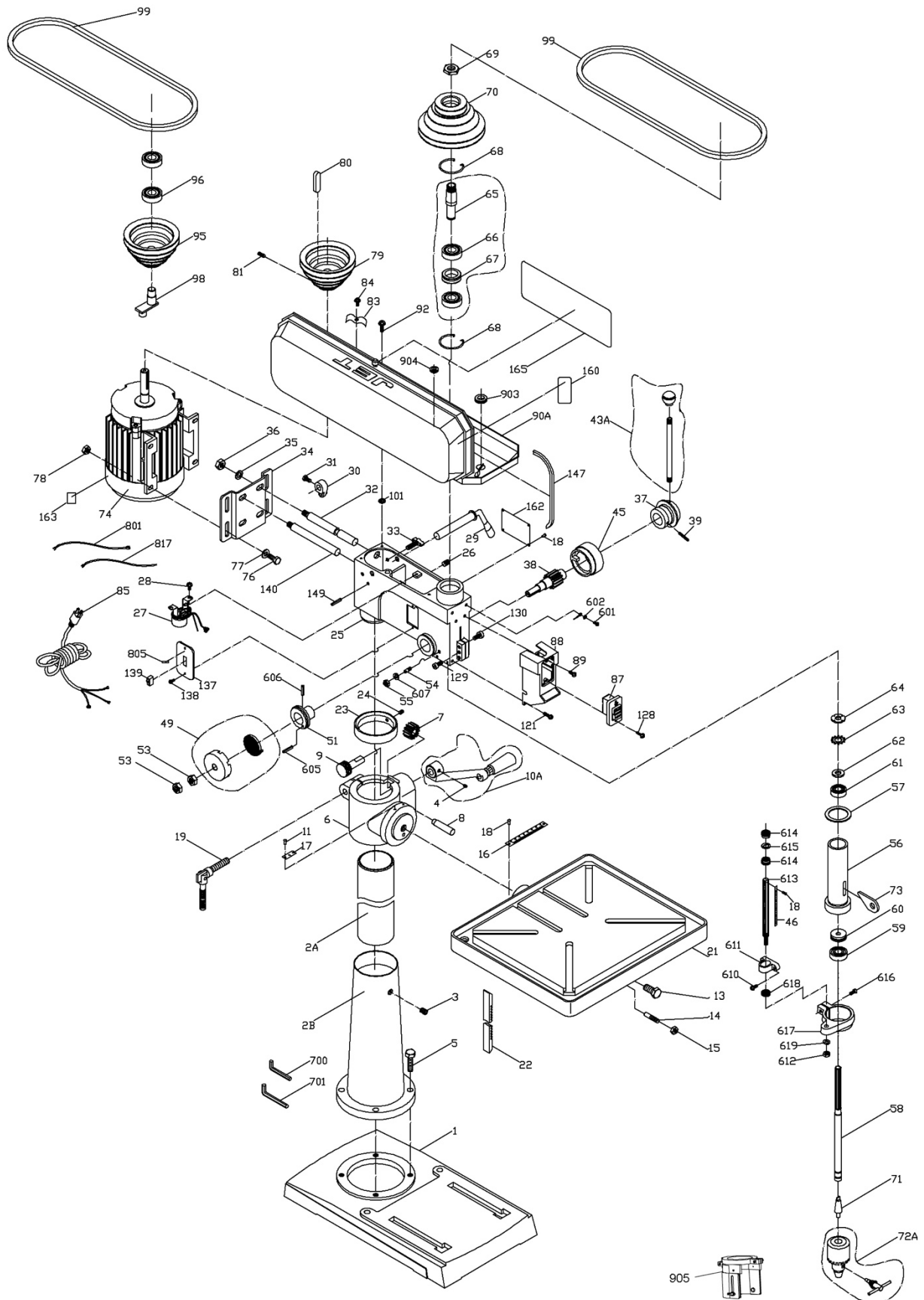
Replacement Parts

Replacement parts are listed on the following pages. To order parts or reach our service department, call 1-800-274-6848 Monday through Friday, 8:00 a.m. to 5:00 p.m. CST. Having the Model Number and Serial Number of your machine available when you call will allow us to serve you quickly and accurately.

Non-proprietary parts, such as fasteners, can be found at local hardware stores, or may be ordered from JET.

Some parts are shown for reference only, and may not be available individually.

Exploded View Drawing JDP-20MF



Parts List JDP-20MF

Index No.	Part No.	Description	Size	Qty
1	JT9-11300117	Base JDP-20MF		1
	JT9-11300214	Column & Holder Assembly (Index2A,2B)	Ø85mm	1
2A	JT9-JDP20-102A	Column		1
2B	JT9-JDP20-102B	Holder		1
3	JT9-TS-1525021	Socket Setscrew	M10x12	1
4	JT9-TS-1523041	Socket Set Screw	M6x12	1
5	JT9-TS-1492041	Hex Cap Screw	M12x40	4
6	JT9-11400607A1	Bracket		1
7	JT9-10600702	Pinion Gear		1
8	JT9-10600802	Gear Shaft		1
9	JT9-10600902	Worm Pinion		1
10A	JT9-10601009	Crank Handle		1
11	JT9-JDP20-111	Panhead Screw	M5x6	2
13	JT9-TS-0071031	Hex Cap Screw	5/8"-11x2"	1
14	JT9-JDP17DX-027	Locator Pin		1
15	JT9-TS-0561011	Hex Nut	1/4"-20	1
16	JT9-11401601	Angle Scale		1
17	JT9-10601702	Centering Scale		1
18	JT9-2658MZDU36	Drive Screw	Ø2.3x5mm	8
19	JT9-10601901	Column Lock Handle		1
21	JT9-11302119	Work Table		1
22	JT9-11402207	Rack		1
23	JT9-11402311	Rack Ring		1
24	JT9-TS-2276081	Socket Set Screw	M6x8	1
25	**	Head		1
26	JT9-TS-1525021	Socket Set Screw	M10x12	2
27	JT9-10602701	Lamp Socket		1
28	JT9-TS-1534042	Pan Head Screw	M6x12	2
29	JT9-11502901	Handle Shifter		1
30	JT9-10603002	Cam		1
31	JT9-TS-1490021	Hex Cap Screw	M8x16	1
32	JT9-11503212	Slide Bar (right)		1
33	JT9-10903302	Slide Bar Bolt	M10x40	2
34	JT9-11403437	Motor Base		1
35	JT9-TS-0720111	Lock Washer	1/2"	2
36	JT9-TS-1540081	Hex Nut	M12	2
37	JT9-JDP15-1038	Hub		1
38	JT9-20373839	Feed Shaft		1
39	JT9-5625391	Spring Pin	Ø5x16mm	1
43A	JT9-JDP20MF-43A	Handle Bar Assembly		3
45	JT9-10604505	Shaft Collar		1
	JT9-JDP20MF-SA	Scale Assembly (includes#18,46,613)		1
46	JT9-13105102	Scale		1
49	JT9-11404903A2	Coil Spring & Cover		1
51	JT9-11305107	Spring Seat		1
53	JT9-TS-0561052	Hex Nut	1/2"-20UNF	12
54	JT9-10605403	Quill Set Screw		1
55	JT9-TS-1540071	Hex Nut	M10	1
56	JT9-11305616	Quill		1
57	JT9-11405704	Rubber Washer		1
58	JT9-5629141	Spindle		1
59	CM9-BB-6206ZZ	Ball Bearing	6206ZZ	1
60	JT9-BB-2906	Thrust Bearing		1
61	JT9-BB-6204Z	Ball Bearing	6204Z	1
62	JT9-11406202	Washer		1
63	JT9-11406302	Lock Nut		1

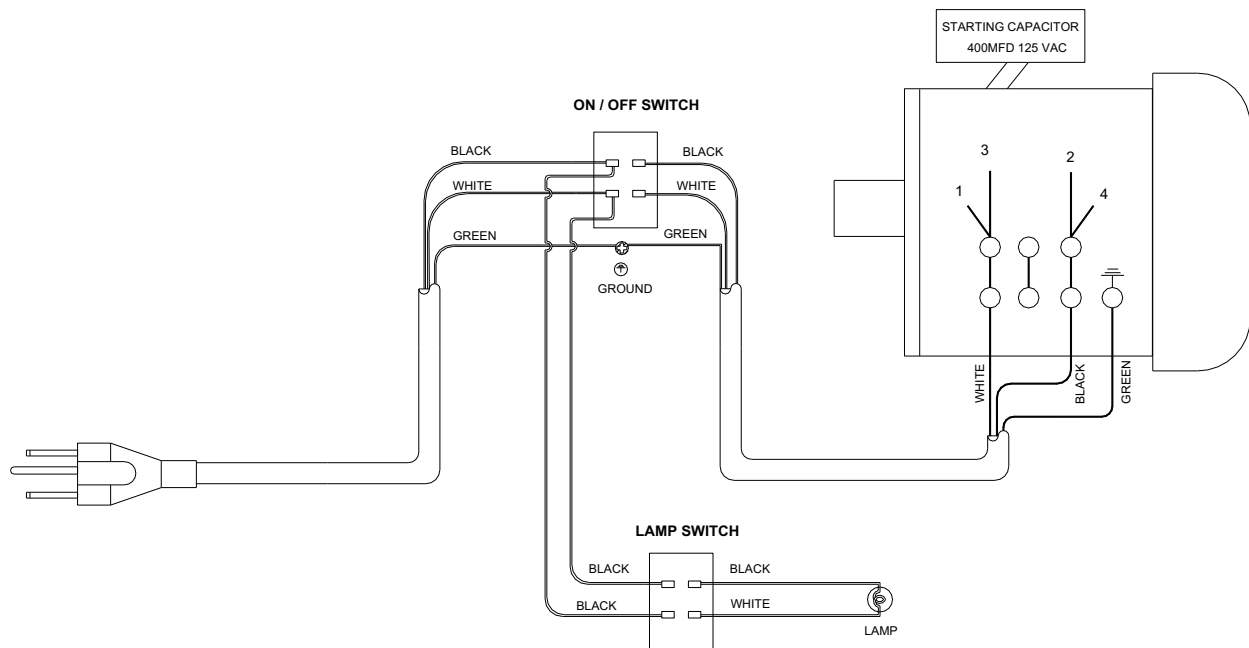
Index No.	Part No.	Description	Size	Qty
64	JT9-11406403	SpindleNut		1
65	JT9-11406508	Drive Sleeve		1
66	JT9-BB-6206Z	Ball Bearing	6206Z	2
67	JT9-11406706	Collar		1
68	JT9-11406803	Retaining Ring		2
69	JT9-10606902	Pulley Set Nut		1
70	JT9-11407019	SpindlePulley	12S,A	1
71	JT9-21015M3J40	Arbor	MT3xJT4	1
72A	JT9-561709	Chuck & Chuck Key		1
73	JT9-10607303	Wedge		1
74	JT9-8211422651	Motor		1
75	JT9-C0014170122	Motor Cable (not shown)		1
76	JT9-TS-1490041	Hex Cap Screw	M8x25	4
77	JT9-TS-1550061	Flat Washer	M8	4
78	JT9-TS-1540061	Hex Nut	M8	4
79	JT9-11037972	Motor Pulley	19mm	1
80	JT9-2571MNC109	Key	5x6x27mm	1
81	JT9-TS-1524031	Socket Set Screw	M8x12	1
83	**	Wire Clip		1
84	JT9-TS-1533032	Pan Head Screw	M5x10	1
85	**	Power Cord		1
87	JT9-994542	Switch		1
88	JT9-11308801	Switch Box		1
89	JT9-TS-1534042	Pan Head Screw	M6x12	2
90A	JT9-11309014A1G	Pulley Cover Assembly		1
92	JT9-TS-1534052	Pan Head Screw	M6x16	4
95	JT9-11409507A1	Center Pulley Assembly		1
96	JT9-BB-6202ZZ	Ball Bearing	6202Z	2
98	JT9-11409803	Center Pulley Shaft		1
99	JT9-VB-A32	Belt	A-32	2
101	JT9-2501MNVN11	Rubber Washer		4
121	JT9-TS-2286302	Pan Head Screw	M6x30	2
128	JT9-2653MBDE15	Tapping Screw	M4x20	2
129	JT9-TS-1504051	Socket Head Cap Screw	M8x25	1
130	JT9-TS-1504061	Socket Head Cap Screw	M8x30	2
137	JT9-10308846G	Switch Cover		1
138	JT9-TS-1533042	Pan Head Screw	M5x12	2
139	JT9-2852U55702	Bulb Switch		1
140	JT9-11514001	Motor Bar (left)		1
147	JT9-JDP20-1147	Cover Edge Strip		1
149	JT9-2536MBE619	SpringPin	Ø8x25mm	2
160	JT9-11316902	Nameplate		1
162	JT9-10216210	Warning Label		1
163	**	Motor Label		1
165	JT9-11316501	Speed Chart		1
601	JT9-TS-1533032	Pan Head Screw	M5x10	2
602	JT9-TS-0733041	Lock Washer External Tooth	1/4"	2
605	JT9-2536MBE623	SpringPin	Ø6x16mm	1
606	JT9-80217-11	SpringPin	Ø25x10mm	1
607	JT9-TS-0720091	Lock Washer	3/8"	2
610	JT9-TS-2286202	Pan Head Screw	M6x20	2
611	JT9-11361101	Seat		1
612	JT9-TS-1540071	Hex Nut	M10	1
613	JT9-JDP20MF-SA	Scale Bolt		1
614	JT9-13005701	Nut	M16-2.0P	2
615	JT9-13005601	Washer		1
616	JT9-TS-1504051	Socket Head Cap Screw	M8x25	1

Index No.	Part No.	Description	Size	Qty
617	WL9-11361702	Set Ring		1
618	JT9-10604505	Round Nut		1
619	JT9-TS-0720091	Lock Washer	3/8"	1
700	JT9-TS-152704	Hex Wrench	3mm	1
701	JT9-TS-152706	Hex Wrench	5mm	1
801	**	BulbWire		1
805	JT9-10280501	BulbSticker		1
903	**	StrainRelief		2
817	**	BulbWire		1
904	**	Strain Relief		1
905	JT9-10810402A1	Chuck Guard Assembly		1

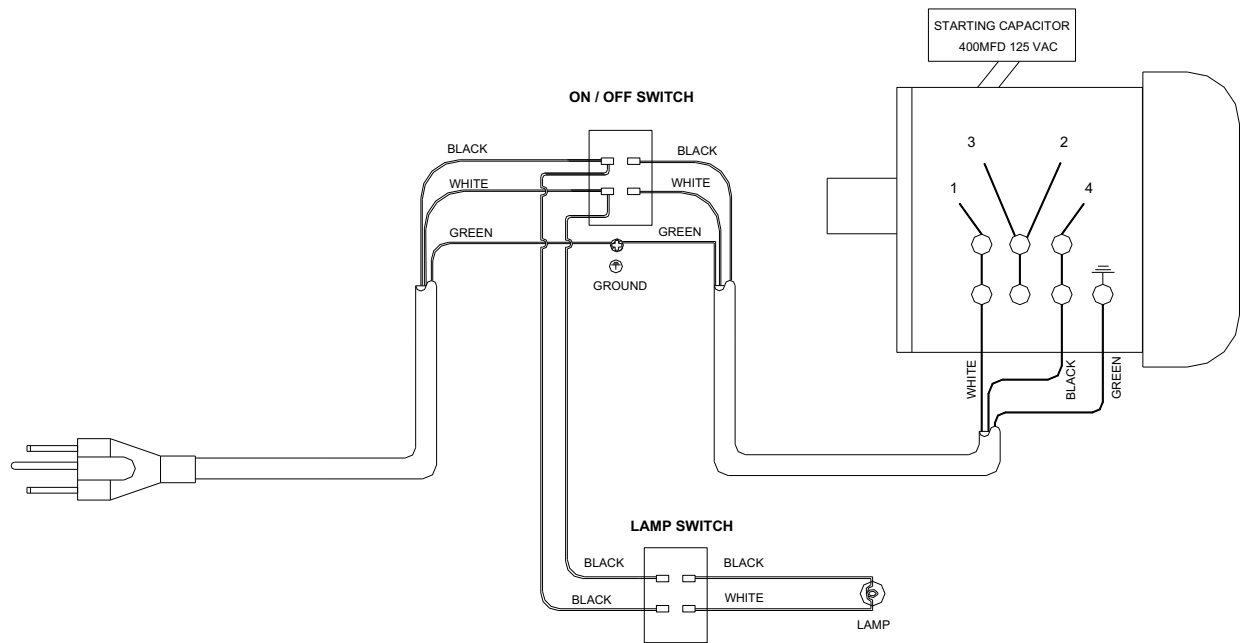
** These parts are shown for reference only and are not available for order individually. Non-proprietary parts, such as fasteners, can usually be found at local hardware stores.

Wiring Diagram

JDP-20MF Electrical Schematic – 115V



JDP-20MF Electrical Schematic – 230V



Warranty and Service

JET® warrants every product it sells against manufacturers' defects. If one of our tools needs service or repair, please contact Technical Service by calling 1-800-274-6846, 8AM to 5PM CST, Monday through Friday.

Warranty Period

The general warranty lasts for the time period specified in the literature included with your product or on the official JET branded website.

- JET products carry a limited warranty which varies in duration based upon the product. (See chart below)
- Accessories carry a limited warranty of one year from the date of receipt.
- Consumable items are defined as expendable parts or accessories expected to become inoperable within a reasonable amount of use and are covered by a 90 day limited warranty against manufacturer's defects.

Who is Covered

This warranty covers only the initial purchaser of the product from the date of delivery.

What is Covered

This warranty covers any defects in workmanship or materials subject to the limitations stated below. This warranty does not cover failures due directly or indirectly to misuse, abuse, negligence or accidents, normal wear-and-tear, improper repair, alterations or lack of maintenance. JET woodworking machinery is designed to be used with Wood. Use of these machines in the processing of metal, plastics, or other materials outside recommended guidelines may void the warranty. The exceptions are acrylics and other natural items that are made specifically for wood turning.

Warranty Limitations

Woodworking products with a Five Year Warranty that are used for commercial or industrial purposes default to a Two Year Warranty. Please contact Technical Service at 1-800-274-6846 for further clarification.

How to Get Technical Support

Please contact Technical Service by calling 1-800-274-6846. **Please note that you will be asked to provide proof of initial purchase when calling.** If a product requires further inspection, the Technical Service representative will explain and assist with any additional action needed. JET has Authorized Service Centers located throughout the United States. For the name of an Authorized Service Center in your area call 1-800-274-6846 or use the Service Center Locator on the JET website.

More Information

JET is constantly adding new products. For complete, up-to-date product information, check with your local distributor or visit the JET website.

How State Law Applies

This warranty gives you specific legal rights, subject to applicable state law.

Limitations on This Warranty

JET LIMITS ALL IMPLIED WARRANTIES TO THE PERIOD OF THE LIMITED WARRANTY FOR EACH PRODUCT. EXCEPT AS STATED HEREIN, ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

JET SHALL IN NO EVENT BE LIABLE FOR DEATH, INJURIES TO PERSONS OR PROPERTY, OR FOR INCIDENTAL, CONTINGENT, SPECIAL, OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF OUR PRODUCTS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

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Product Listing with Warranty Period

90 Days – Parts; Consumable items
1 Year – Motors; Machine Accessories
2 Year – Metalworking Machinery; Electric Hoists, Electric Hoist Accessories; Woodworking Machinery used for industrial or commercial purposes
5 Year – Woodworking Machinery
Limited Lifetime – JET Parallel clamps; VOLT Series Electric Hoists; Manual Hoists; Manual Hoist Accessories; Shop Tools; Warehouse & Dock products; Hand Tools; Air Tools

NOTE: Jet is a division of JPW Industries, Inc. References in this document to JET also apply to JPW Industries, Inc., or any of its successors in interest to the JET brand.

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